KHOMCHENKO, G.P.; STOYANOVSKAYA, T.N.; VOVCHENKO, G.D.

Reactions of hydrogenation and electrohydrogenation of some organic substances on a ruthenium electrode-catalyst. Zhur. fiz. khim. 38 no.2:434-438 F 164. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

KHOMCHENKO, G.P.; TSINTSEVICH, V.::.; VOVCHENKO, G.D.

Catalytic hydrogenation and electrolytic hydrogenation of butynediol and its homologs. Zhur. fiz. khim. 38 no.2:496-100 (MRA 17:8)

F '64.

1. Moskovskiy gosudarsivennyy universitat imeni Lomonosova.

L 26737-66 EWP(k)/EWT(m)/EWP(d) ACC NR: AP6017438	SOURCE CODE: UR/0076/65/039, 006/1408/1412
AUTHOR: Bogdanovskiy, G. A.; K	Chomchenko, G. P.; Vovchenko, G. D.
ORG: Moscow State University i	im. M. V. Lomonosov (Moskovskiy gosudarstrennyy
universitet)	· contract of the contract of
TITIE: Charging curves of meta	al powders 4
	nimii, v. 39, no. 6, 1965, 1408-1412
TOPIC TAGS: metal powder, rhodi	ium, ruthenium, hydrogen
ARSTRACT: A method is pro	prosed for plotting the charge curves
of the true surfaces of me	the direct contact method. The values etal powders, calculated according to the
hydrogen region of the cha	arge ourves plotted by the direct contact
method, are in excellent a	agreement with values obtained by the BET ed that the amount of electricity required
to aliminate adsorbed hydr	rogen from 1 cmc surface of rhodium for
ruthenium amounts to 28 •	10-5 coulombs and is the characteristic um group. Orig. art. has: 7 figures. [. PRS]
of transfer in a first water or a solution resource.	and the second of the second o
SUB CODE: 11 / SUBM DATE: 2	22Feb64 / ORIG REF: 010 / OTH REF: 102

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

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RNASHIKOVA, L.Ya.; KHONCHENKO, G.F.; VOVCHENKO, G.D.

Effect of the reaction products on the catalytic reduction of crotonic and maleic seids on platimum. Vest. Mask. un. der. 2: Fhim. 20 no. 5:44 18:12)

1. Kafedra obshchey khimii Moskovskogo gosudarstvennogo universitets. Sutmitted Dec. 31, 1964.

#### 

GRISHINA, T.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Adsorption of some organic substances on a rhodium electrose-catalyst. Vest. Kesk. un. Ser. 2: Khim. 20 no.5:41-43 %-3 '65. (MILA 19:1)

1. Kafedra obshchey khimii Meskovskogo universitata. Submitted
Feb. 15, 1965.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

BOGDANOVSKIY, G.A.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Charge curves of powdered metals. Zhur. fiz. khim. 39
no.6:1408-1412 Je '65. (MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
Submitted Feb. 22, 1964.

TSINTSEVICH, V.M.; KOMCHENKO, G.P.; VOVCHENKO, G.D.

Electrochemical reduction of butyne-1,4-dicl on a platimum electrode-catalyst. Elektrokhimita 1 no.8:928-932 Ag \*65. (MIRA 18:9)

1. Moskovskiy gosudarstvennyy universitat imeni M.V.Lonono ova.

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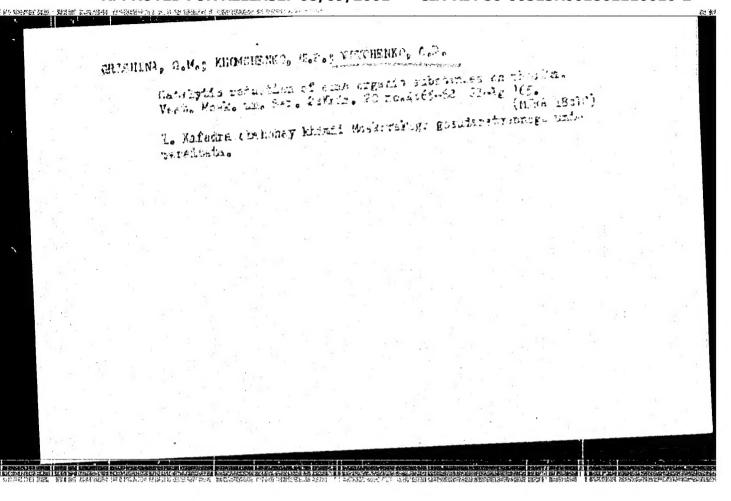
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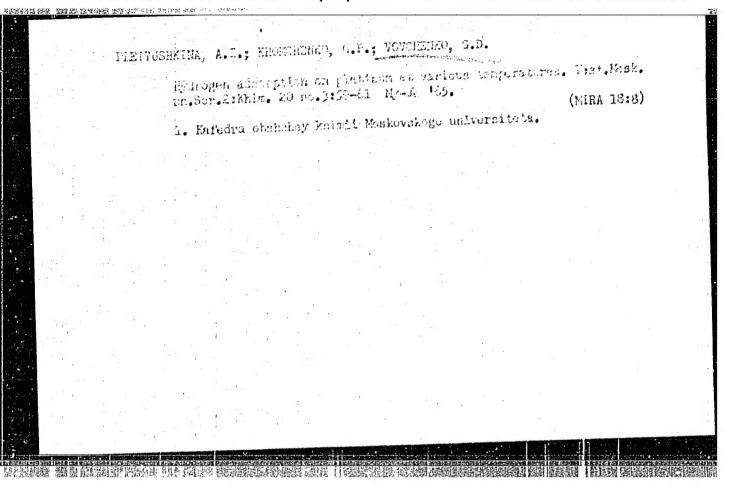
STOYANDERS TO THE STORTH HEAD, He be TOTHERSO, Gelle.

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	Adsorptive capacity of some platinoide toward hydrogen at different pH values. Vent. Mosk.un. Ser. 2: Khim. 19 nc. 4:35-38 Jl-Ag '64.  (MIRA 18:8)  1. Kafedra obshchey khimii Moskovokogo universiteta.										

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

STOYANOVSKAYA, T.N.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Catalytic reduction in an adsorption hydrogen layer of some organic compounds on a ruthenium electrode-catalyst. Vest. Mosk. un. Ser.

2:56-59 Mr-Ap '65. (MIRA 18:7)

1. Kaferad obshchey khimii Moskovskogo universiteta.

KHOMCHENKO, G.P.; UL'KO, N.G.; VOVCHENKO, G.D.

Charging curves of an osmium electrode-catalyst. Part 1. Elektrokhimiia
1 no.6:659-663 Je '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

	Flectroreduction of sore organic substance on a rathering electrole-catalyst. Vest. Mosk. un. 30 r. 2; Khis. 20 no. 3:64-66 (MIRA 18:8)
	2. Kafedra obshehog kbh 11 Meskeyekego universiteta.
. U.	

TSINTSEVICH, V.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Adsorptive capacity and the interaction of butynediol and its homologs with the electrode-catalyst. Zhur. fiz. khim. 38 no.9:2305-2309 S 64. (MIRA 17:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

STOYANOVSKAYA, T.N.; KHOMCHENKO, G.P.; PLETTUSHKINA. A.I.; VOVCHENKO, G.D.

Determination of the true surface of a ruthenium electrode-catalyst.

Vest.Mosk.un. Ser.2:Khim. 18 no.6:50-51 N-D '63. (Mikk 17:4.)

1. Kafedra obshchey khimli Moskovskogo universitata.

GRISHINA, T.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Mechanism of electroreduction of some organic substances on rhodium. Part 4. Vest. Mosk.un. Ser. 2: Khim. 18 no. 6: 52-54 N-D '63. (MIRI 17:4)

1. Kafedra obshchey khimii Moskovskogo universiteta.

GRISHINA, T.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Comparison of the rates of the catalytic reduction and electralytic reduction of some organic substances on rhodium. Part 3. Vest. Mesk. un. Ser.2: Khim. 18 no.4:55-58 Jl-Ag '63. (MIRA 16:9)

1. Kafedra obshchey khimii Meskovskogo universiteta.
(Catalysis) (Reduction, Electrolytic)
(Electrodes, Rhedium)

# VOVCHENKO, 0.1. Excursion to f vater pumping station, Fiz.v shkole 15 no.3: 60-63 Wy-Je '55. 1. 10-ys shkola (g.Berdsk Novosibirdo oy oblasti) (Water-supply engineering)

VOVCHERKO, G.V., kandidat meditsinskikh mauk

Projecting the acetabulum and of the femoral head on the surface of the human body. Ortop.travm.protes., Moskva no.1:69-90 Ja-1' (MLRA 8:10)

1. Is ortopedicheskoy kliniki (sav.-prof. T.M. Stepanov) i kafedry fakul'tetskoy khirurgii (sav.-prof. T. M. Stepanov) i mapri-petrovskogo meditsinskogo instituts.

(ACETABULUM,
determination on surface of human body)

(RIBS,
determ. of costal head on surface of human body)

VCVCHENKO, I., TURCHAK, M. Michine-Tractor Stations At the "Shevchenko" Mts. MTS 12 no. 3, 1952 1958: Unclassified. Monthly List of Russian Accessions, Library of Congress, August

	1.	VOYCHENKO, I
	2.	USOR (600)
	4:	Agriculture
	7.	Strengthening communal exonomy on the "17th Party Congress" Collective Farm. Dost. sel'khoz. no. 6, 1952
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-		· •
	;	
9.	: Mo	onthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.
	:	

VOVCHENKO, Ivan Antonovich; VELICHKIN, Ye.A., inzh., red.; BOBROVA,
Ye.N., tekhn.red.

[Rapair of track and building machinery] Ramont putewykh i
atroitel'nykh mashin. Moskva, Gos.transp.zhel-dor.izd-vo, 1959.
370 p.

(Building machinery-Maintenance and repair)

(Railroads--Track)

VOVCHENKO, I.A.; IVANOV, V.A.; MIN'KO, Ye.M., starshiy inzh.

Vibration sinking of pile foundations in the electrification of railroads. Transp. stroi. 11 no.10:19-21 0 '61. (MIRA 14:10)

1. Glavnyy mekhanik Glavnogo upravleniya zheleznodorozhnogo stroitel'stva (Tôr Vovchenko). 2. Nachal'nik tresta Yuzhtransstroy (for Ivanov).

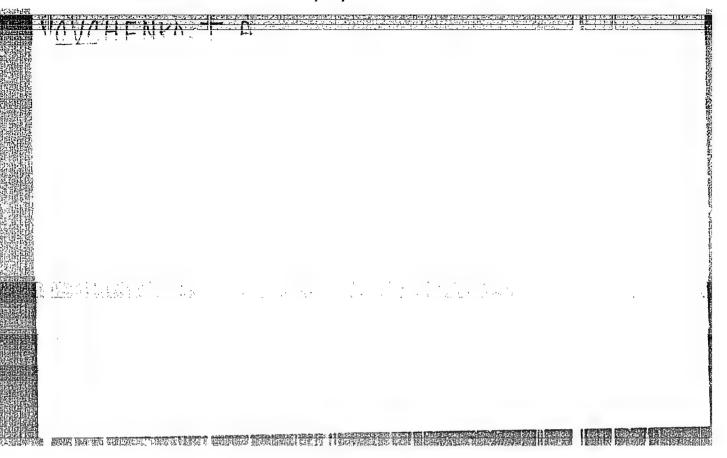
(Piling (Givil engineering)) (Railroads-Electrification)

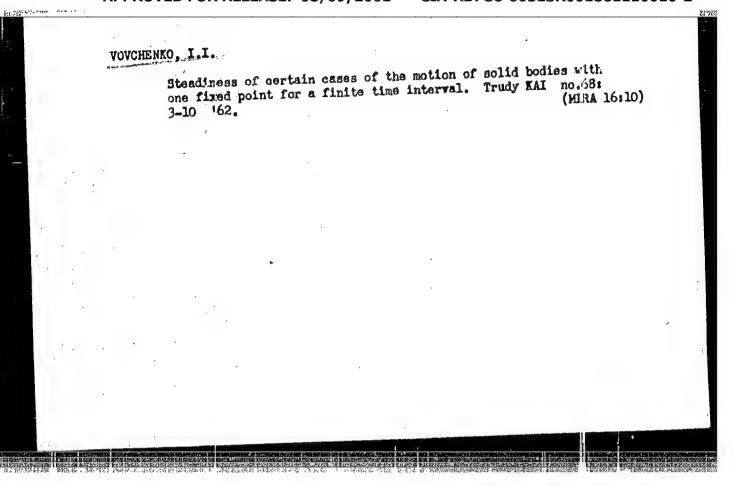
# VOVCHENKO, I. A.; ZAYTSEV, Ye. I.

Stamping bottoms using a blasting method. Transp. stroi. 13 no.4:64 Ap 163. (MIRA 16:4)

1. Glavnyy mekhanik Glavnogo upravleniya zheleznodorozhmogo stroitelistva Povolzhiya i Yuga (for Vovchenko). 2. Glavnyy inzhener Krasnodarskogo remontno-mekhanicheskogo zavoúa (for Zaytsev).

(Water heaters) (Explosives in sheet-metal work)





BR

ACCESSION NR: AT4025520

\$/2529/62/000/068/0003/0010

AUTHOR: Vovchenko, I. I.

TITLE: The stability of certain cases of the motion of rigid bodies with one fixed point in a finite time interval

SOURCE: Kazan. Aviatsionnymy institut. Trudym, no. 68, 1962. Matematika i mekhanika (Mathematics and mechanics), 3-10

TOPIC TAGS: Lyapunov stability, Lyapunov theory, stability theory, motion stability, rotational motion, gyroscope, forco-field, rigid body

ABSTRACT: The unconditional Lyapunov stability of the uniform rotation around a vertical axis is investigated for a heavy gyroscope with a fixed bearing and with a center of inertia located on the axis of rotation. The mass of the gyroscope may be constant or may be variable. The gyroscope is located either in a parallel force field or in a Newtonian force field. These various cases are considered separately. Orig. art. has: 21 formulas.

ASSOCIATION: Aviatsionny's institut, Kozan (Kozan Aviation institute)

Card 1./2

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S/124/62/000/071/002/017 D234/D308

24.4/00

AUTHOR:

Vovchenko, I. I.

TITLE:

Stability of some cases of motion of bodies having variable mass with one fixed point

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 11, 1962, 14, abstract 11A100 (Tr. Kazansk. aviats. in-ta, 1960, no. 61, 29-46)

TEXT: The author considers a heavy body whose mass varies according to a determined law, rotating about a fixed point. It is assumed that the body is subject to moments of gravitational forces, of Meshcherskiy's forces, of inertial forces of ejected mass particles and of Coriolis forces of these particles. Conditions of stability of motion of the body are sought. In solving the problem, only the moment of gravitational forces is taken into account and other moments are assumed to be equal to zero. The problem is solved by Lyapunov's second method. Lyapunov's function is a bundle of first integrals of the limiting system of equations obtained from the

Card 1/2

Stability of some ...

S/124/62/000/011/002/01, D234/D308

initial system by assuming the mass of the body to be constant. The author considers the cases when the center of inertia of the body coincides or does not coincide with the fixed point. In the second part of the paper the same problem is considered assuming that the body is in a Newton's force field. Abstracter's note: Jou plete translation.

Card 2/2

S/124/63/000/002/001/052
D234/D308

AUTHOR: Vovchenko, I.I.

TITLE: Stability of some cases of motion of solid bodies with one fixed point in a finite time interval with one fixed point in a finite time interval abstract 2/32 (Tr. Kazansk, aviats. in-ta. no. 68, 1962, 3-10)

TEXT: The author studies the stability of some leavy gyroscopes of constant and variable mass, rotating uniformly bout a scopes of constant and variable mass, rotating uniformly bout a vertical axis, in a finite time interval; also of gyrosco es in a vertical axis, in a finite time interval; also of gyrosco es in a leave of the conditions of a pecial leave of the conditions of a pecial leave of the conditions of stability in ce tain time intervals.

Abstracter's note: Complete translation 7

Gard 1/1

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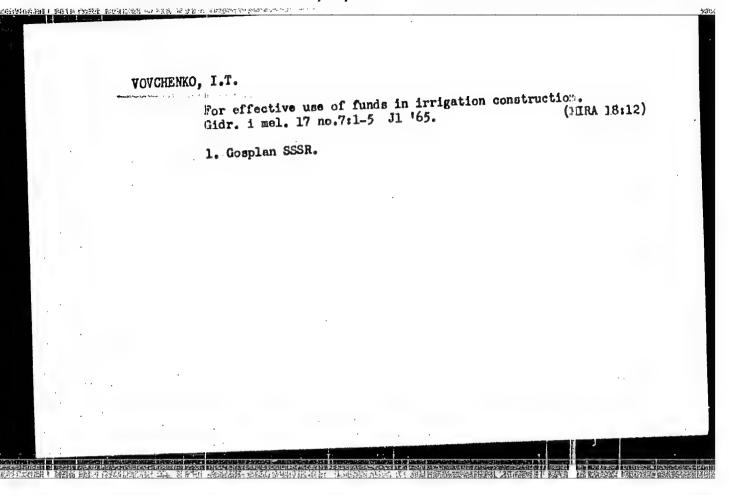
THE BUILDING PROPERTY OF THE P

CIA-RDP86-00513R001861110010-2

(MIRA 16:2)

Results of water resources development in 1962 and forthcoming tasks.

Gidr. i mel. 14:3-9 Ja 163.
(Water resources development)



30(1.)

SOV/99-59-2-2/12

**AUTHOR:** 

Vovchenko, I.T.

TITLE:

Water Economy Construction During the Seven-Year Period 1959 - 1965 (Vodokhozyaystvennoye stroitel'-

stvo v semiletii 1959 - 1965 gg.)

PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 2, pp 7-13

(USSR)

ABSTRACT:

The article gives data on irrigation and drainage projects to be completed in the USSR by 1965. By that time, Soviet agriculture is scheduled to produce 10 to 11 billion puds of grain and 5,7 to 6,100,000 tons of cotton (35-40% above the 1958 cotton figure). The estimate of the additional acreage to be created by 1965 follows: 1) 1,900,000 hectares of new arable land will be gained through irrigation; 2) 3,600,000 hectares will undergo irrigation; 3) some 78,000,000 hectares of pasture in the arid and nearly-arid areas will be watered. The breakdown: RSFSR-over 500,000

Card 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2" SOV/99-59-2-2/12
Water Economy Construction During the Seven-Year Period 1959-1965

hectares of new lands will be gained through irrigation, 5,000,000 hectares of pastures will te watered, and over 1,000,000 hectares will be irained; UkrSSR-200,000 hectares are to be drained and 150,000 hectares are to be irrigated; Belorussian SSR-over 600,000 hectares of swampy grounds are scheduled for draining in the Polesskiy and other districts; Uzbek SSR-600 to 700,000 hectares of arable land already in existance are to be arelicrated, 500,000 hectares of new lands are to be gained through irrigation, 5,000,000 hectares of pasture are to be watered, and the irrigation system of 250 to 300,000 hectares of sovkhoz lands is to be remodeled; Kazakh SSR-55,000,000 hectares of pasture are to be watered, the amelicrative state of some 120,000 hectares is so be improved, and some 200,000 hectares of new rable land is to be gained through irrigation; Georgian SSR-35,000 hectares of new arable land are to be gained through irrigation and 20,000 hectares through drainage; Azerbaydzhan SSR-185,000 hectares

Card 2/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

SOV/99-59-2-2/12 Water Economy Construction During the Seven-Year Period 1959-1965

are to be gained through irrigation and 670,000 hectares of pasture are to be watered; Lithuanian SSR-over 800,000 hectares of arable land will be gained through drainage; Moldavian SSR-40,000 hectares of new arable land will be gained through irrigation; Latvian SSR-over 600,000 hectares are scheduled for drainage; Kirgiz SSR-900,000 hectares of pasture will be watered and 100 to 110,000 hectares of arable land will be gained through irrigation; Tadzaik SSR-150,000 hectares of arable land will be gained through irrigation and 1,500,000 hectares of pastures will be watered; Armenian SSR-37,000 hectares of arable land will be gained through irrigation; Turkmen SSR-155,000 hectares of new arable land will be gained through irrigation and 10,000,000 hectares of pasture will be watered; Estonian SSR-230,000 hectares of swampy grounds are to be drained.

Card 3/3

vovchinko, I.V.

Barley

Winter barley in Odessa Province. Sel. 1 sem., 19, No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October . USCIASSIFIED.

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#### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2

VOYCHENKO, Ivan Yaavoledoyich, kand. sel'khoz. nauk zasl. agronom
URER; VINNITSKIY, S.[Vimnyts'kyi, S.], red.; MOLCHAHOVA, T.,
tekhn. red.

[More fertilizers, more corn] Bil'she dobryv - bil'she kukurudzy. Odesa, Odes'ke kryzhkove vyd-vo, 1959. 25 p.
(MIRA 15:7)

1. Direktor Odesskoy gosudarstvennoy sel'skokhozyaystvennoy
opytnoy stantsii (for Vovchenko).

(Ukrsine-Corn (Naize))-Fertilizers and mamures)

WOVCHENKO, Ivan Vsevolodovich, kand.sel'skokh.nsuk; VERBIN, Ya.Ya. [Verbin, IA.IA.], proserred. POLOTAY, A.W. [Polotai, A.M.], red.

[Most important cultivation practices in growing winter wheat]
Maivazhlyvishi agrotekhnichni pryiomy vyroshchuvannia ozymoi
pshenytsi. Kyiv, 1958. 31 p. (Tovarystvo dlia poshyreninia
politychnykh i naukovykh znan' Ukrains'koi ESR. Ser.3. no.9)
(Wheat) (MIRA 12:2)

HLAZHEVSKIY, Ye.V., dvazhdy Geroy Sotsialisticheskogo Truda; VOYCHENEO, I.V., kand. sel'khoz. nauk, zasł. agronom Ukr.SSR; VORDBILV, N.Te., st. nauchn. sotr.; GESHELE, E.E., doktor biol. nauk, prof.; ZUBRITSKIY, A.A., agronom; KISEL'GOF, Z.S., inzh., zasl. mekhanizator sel'skogo khoz. Ukr.SSR; KLYUCHKO, P.F., kand. sel'khoz. nauk; KORCHAGIN, A.Y. e.; LEREDEV, Ye.M., st. nauchn. sotr.; NASYPAYKO, V.M., kand. sel'khoz.nauk; PIKUS, nauchn. sotr.; NASYPAYKO, V.M., kand. sel'khoz.nauk; PIKUS, nauk, prof.; SPIVAK, I.I., zootekhnik; TEMCHENKO, L.V., kand. sel'khoz. nauk, r.d.; kand. tekhn.nauk; KITAYEV, A.A., agronom; YAKOVENKO, V.A. kand. tekhn.nauk; KITAYEV, I.A., kand. sel'khoz. nauk, r.d.; MUSIYKO, A.S., akademik, red.; VINNITSKIY, S.P., red.; MOLCHANOVA, T.N., tekhn. red.

[For high corn yields] Za bol'shuiu kukuruzu. [By] E.V. Blazhevskii i dr. Odessa, Odesskoe knishnoe izd-vo, 1962. (MIRA 16:7)

1. Zven'yevoy kolkhoza im. Gor'kogo Kotovskogo rayona na Odesshchine (for Blazhevskiy). 2. Glavnyy agronom sovkhoza "Bessarabskiy" (for Korchagin). 3. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for Musiyko). (Ukraine--Corn (Maise))

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VOVCHENKO, L. I.

Vovchenko, L. I.

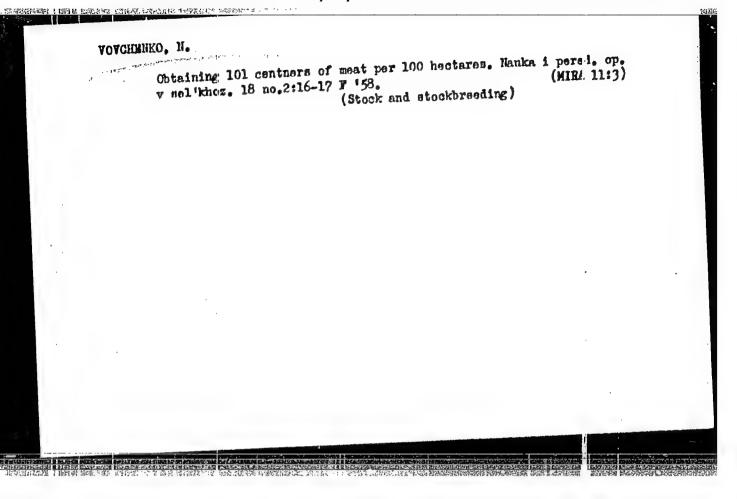
"The network of mass libraries in the Ukrainian SSR in the postrar period (1945-1954). Problems of the location and planning of the network of mass libraries in rural localities." Moscow State Library Inst imeni V. M. Kolotov. Moscow, 1956. (Dissertation for the Degree of Candidate in Pedagogical Science)

So: Knizhnaya letopis', No. 25, 1956

BUKHIN, V.Ye.; YOYCHENKO, L.I.; PERCHENOK, R.I.; PROFERANSOV, Y.P.; KNAPP, K.K., red.; ALTUF YEVA, A.M., red.izd-va; YOIKOV, S.Y., tekhn.red.

[Gas equipment, apparatus, instruments, and fittings for an urban gas system; catalog] Gazovoe oborudovanie, apparatura, pribory, armatura dlia gorodskogo gazovogo khoziaistva; katalog, Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1959. 289 p. (MIRA 13:2) (Gas appliances)

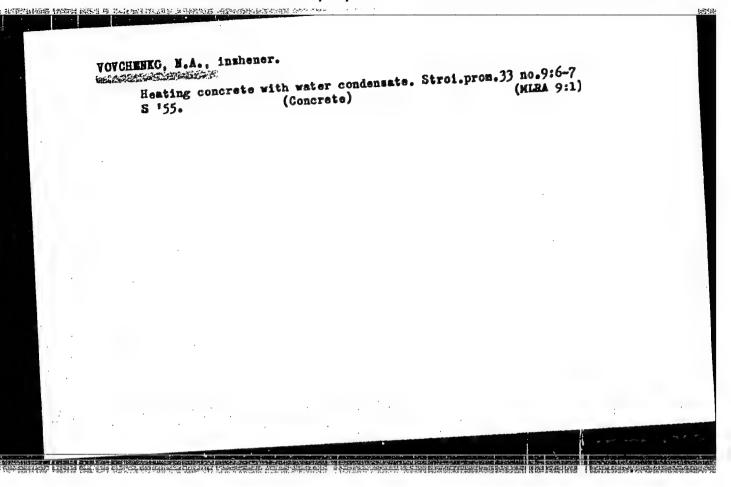
(das manufacture and works-Equipment and supplies)



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2" VOVCHENKO, N.

Knigi po botanike. (Annotirovannyi spisok dlia uchashchikhsia 5-kh i 6-kh klassov.) (Ecoks on botany (An annotated list for students of the 5th and 6th grades)). Moskva, Detgiz, 1952. 24 pl

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954



VOVCHENKO, N.L.

Proposed planning for developing bases of the construction industry in the Tatar A.S.S.R. Prom.stroi. 37 no.12:4-6 D 159. (MIRA 13:4)

1. Zamesti el' predsedatelya Tatarskogo sovnarkhoza. (Tatar A.S.S.R.--Building materials industry)

YOVCHENKO, N.L.

Tasks of pipeline installers in the sixth five-year plan. Stroi.pred. neft.prem.l ne.2:1-2 Ap 156. (MTRA 9:9)

1.Zamestitel' ministra streitel'stva predpriyatii neftyaney promyshlemnesti.

(Petreleum--Pipelines)

RANK KIN TELEPONE TO PENELLINGS MARKATAN ON THE PARKETER SERVICE AND RESERVED.

#### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110010-2

VOVCHENKO, N.L.

Conditions for the industrialization of construction in petroleum and gas production in the Tatar A.S.S.R. and Bashkiria. Stroi. truboprov. 10 no.1:15-18 Ja '65. (MIRA 18:4)

1. Nachal'nik Glavnogo upravleniya kapital'nogo stroitel'stva Soveta narodnogo khozyaystva RSFSR.

# For ther specialization and cooperation in construction. Prome stroi. 39 no.11:5/7 161. (MIRA 14:12)

1. Glavnoye upravleniye kapital'nogo stroitel'stva Vserossiyskogo

Soveta Marodnogo Khozyaystva.
(Construction industry-Production methods)

VOVCHENKO, N.L.

Shorten the construction period for industrial complexes.
Prom. stroi. 39 no.7:2-4 '61. (NIRA 14:7)

1. Nachal'nik Glavnogo upravleniya kapital'nogo stroitel'stva Vgerossiyskogo Soveta Narodnogo Khozyaystva. (Construction industry)

### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2

VOYCHPIKO, N.L.; RETYUNIN, P.A.

Using casing-head gas as a refrigerant. Noft.khoz. 38 no.5:49-52
(Gas, Natural)
(Food industry)
(Refrigerators)

SOKOLOV, Georgiy Davydovich, inzh.; RETTUTIN, Pimen Andrianovich; VOYCHENKO,
Nikolay Lavrent'yevich; ISAYEVA, V.V., vedushchiy red.; VORONOVA, V.V.,
tekhn. red.

[Setting up oil fields; from the practice of Tatar oil workers] Obustroistvo neftianykh promyslov; iz opyta neftianikov Tatarii. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 128 p. (MIRA 14:9) (Tatar A.S.S.R.—Oil fields—Froduction methods)

YOYCHENKO, Nikolay Vasil'yevich, Geroy Sotsialisticheskogo Truda;
MEKSIH, David Vladimirovich, agronom; KATSHEL'SOH, S.M., red.;
SAYCHENKO, Ye.V., tekhn.red.

[Seven-year plan of the collective farm in operation] Semiletnii plan kolkhoza v deistvii. Moskva, Izd-vo "Znanie," 1960. 39 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.5, Sel'skoe khozisistvo, no.1). (MIRA 13:2)

1. Predsedatel kolkhoza imeni Stalina Shirokovskogo rayona Dnepropetrovskoy oblasti (for Vovchenko). (Shirokoye District--Agriculture)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

VoveHenKo, N. YA.

4.3-4

PHASE I BOOK EXPLOITATION

SOV/3491 SOV/11-M-109

Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze Aviatsionnoye priborostroyeniye i avtomatika; sbornik statey (Instrument Making and Automatic Systems in Aviation; Collection of Articles) Moscow, Otorongiz, 1959. 147 p. (Series: Its Trudy, vyp. 109) Errata slip inserted. 5,200 copies printed.

Ministerstvo vysshego obrazovaniya.

Ed.: B. A. Ryabov, Doctor of Technical Sciences, Professor; Ed. of Publishing Flouse: N. A. Gortsuyeva; Tech. Ed.: L. A. Garnukhina; Managing Ed: A. S. Zaysov-

PURPOSE: This book is intended for scientific and technical personnel in the field of instrument making and automation, and for students of technical schools of

COVERAGE: The book is a collection of 10 articles describing certain aspects of aircraft automatic control and regulation and aviation instrument waking. The

Card 1/5

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

80V/3491 Instrument Making and Automatic (Cont.) articles consist of parts of the authors' dissertations or describe results of scientific research work of the Department of Aircraft Instruments and Automatic Systems of the Moscow Aviation Institute. References are given at the end of some articles. 3 TABLE OF CONTENTS: Pemykayev, I. I., Candidate of Technical Sciences. The Problem of The author studies the kinematics of relative motion in complex systems and derives relationships between kinematic elements (velocity and ac-Relative Motion celeration) of the motion of a point with respect to each system. The problem is important in the construction of navigational systems. Danilin, V. P., Candidate of Technical Sciences. Using Gyroscopes With 22 Three Degrees of Freedom for Measurement of Angular Velocities Card 2/5

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

Instrument Making and Automatic (Cont.)

80V/3491

Danilin, V. P., Candidate of Technical Sciences. Diagrams of Biaxial Measuring Devices of Angular Velocities on the Basis of a Gyroscope With Three Degrees of Freedom

The author considers independent methods of fluid velocity measurement, compensation of temperature errors, and some other problems of aviation instrument production.

Voychenko, N. Ya., Candidate of Technical Sciences. Dynamic Characteristics of Velocity Spiral Vane Flowmeters

The author discusses dynamic errors of flowmeters in measuring variable rate flows. Analytic formulas are established and experimental verification of coefficients is given.

Denisov, V. G., Candidate of Technical Sciences. Application of Similarity Theory and of Physical Modelling to the Investigation of Velocity Flowmeters

The author presents an effective method for determining the basic for Liquids characteristics of current-type flowmeters under various operating conditions. Results obtained by theoretical methods were checked experimentally.

Card 3/5

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

nstrument Making and Automatic (Cont.) SOV/3491	
ovckenko, N.Ya., and A. P. Yurkevich, Candidates of Technical Sciences.  nalysis of Kinematic Temperature Compensation  The authors present a method of compensating for temperature errors  in navigational instruments with linear and nonlinear characteristics  of membrane deflections.	70
urkevich, A. P., Candidate of Technical Sciences; and Engineer Yu. F. nan'yev. Methods of Measuring Velocity of an Airflow  The authors review Soviet and foreign literature on variable airflow measuring methods.	79
ertinov, A. I., and S. R. Mizurin, Candidates of Technical Science. recise Regulation of D.C. Motor Speed The authors have developed a method of controlling synchronous rotation speeds of d-c motors which has a high stabilization accuracy.	94
arogodin, V. M., Candidate of Technical Sciences. A Problem of Fighte: ircraft Dynamics The author establishes and solves the differential equation of fighter aircraft motion, finds the law of this motion on the trajectory, computes leads acting on the fighter aircraft, and determines the method of its control.	121
ard 4/5	

Instrument Making and Automatic (Cont.)

801/3491

Karagodin, V. M., Candidate of Technical Sciences. A Monlinear Problem in the Vibration Theory

138

THE PERSON OF TH

The author considers a mechanical system with one degree of freedom. He studies conservative systems with forces depending on coordinates and velocities. Selfoscillating systems and conservative systems with forces depending only on coordinates are not considered.

AVAILABLE: Library of Congress

Card 5/5

10/201 1-6-60

80V/144-59-5-7/14

AUTHOR: Vovchenko, N.Ya., Candidate of Technical Sciences, Docent

TTTLE: Componsation for the Temperature Error of Elastic

Sensitive Elements in the Electrical Systems of Aircraft

Servos

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 5, pp 53 - 58 (USSR)

ABSTRACT: With the increasing speed of modern aircraft the various elastic sensitive elements, such as an eroid pressure pick-ups which are used in control systems, encounter higher temperatures, reaching perhaps 150 - 200 °C. This leads to temperature errors which amount typically to 10%. The existing methods of temperature compensation, based on the use of a bimetallic strip, are suitable only for temperatures of 50 - 70 °C. It is now preferable to use electrical compensation in the bridge circuits associated with the pick-up. These bridges are usually of the self-

Card 1/2 balancing type, Figure 1, with the signal picked up as a

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SOV/144-59-5-7/14

Compensation for the Temperature Error of Elastic Sensitive Elements in the Electrical Systems of Aircraft: Servos

voltage, Figure 2, or as a current, Figure 3. The basic compensated voltage-divider is shown in Figure 4. If the pressure characteristic of the aneroid is as derived in Ref 1, the compensation condition is given by Eq (8) and the value of the supplementary resistance is calculated from Eq (9). There is a practical advantage in separating out a fixed part of the voltage-divider resistance R and this is done in Eq (11). These expressions assure that the voltage-divider itself is free from error. If not Eq (12) must be used. The basic principles are equally applicable to capacitive and inductive pick-ups. There are 4 figures and 1 Soviet reference.

ASECCTATION: Moskovskiy aviatsionnyy institut (Moscow Aviation Institute)

SUBMITTED: March 28th, 1959.

Card. 2/2

BEASLAVSKIY, D.A.; VOVCHENKO, N.Ya.; YURKEVICH, A.P.; DENISOV, Y.G.;
RYABOV, B.A., prof., doktor tekhn.mank, red.; GRIGORASH, K.I.,
12dat.red.; ORESHKINA, V.I., tekhn.red.

[Manual for designing seronautical instruments] Posobie poproektirovaniu aviatsionnykh priborov. Pod red. B.A.Risbova. Moskva. Gos.nauchno-tekhn.izd-vo Oborongiz. No.1. [Riectromechanical instruments] Elektromekhanicheskis pribory. 1960. (MIRE 13:7)

1. Moscow. Aviatsionayy institut imeni Sergo Ordshomikidse. (Aeronautical instruments)

## "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2

sc/m/ps 9-22-60	ore of Meshman Devices s in Power Systems	generalized between With	News of Modellor the Drive Station		(TILL page) on a Annoy, notice of the East V. I. Or making Panoging Ed. (India book); V. M. Then Ed. V. I. Or making Panoging Ed., A. S. Saynoramyn, Indians; Prob. Ed. V. I. Or making Panoging Upday. This book is invested for engineers and meablishes working in the Upday. This book is invested for engineers and meablishes we think to be used by planning and design of devices and control appearance of enhance of higher technics states is in the second to the se	vysobe () i srednego spetsial'nogo	riboror I etames upravientes, filonità sinist Mattom Electrometes and Comit Extensi Chi- Botronglis, 1904, 157 p. (Sertes: Ne: Tra Mad. ),659 mogias printeds.	1. 3		
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S/194/61/000/010/006.'082 D256/D301

AUTHORS:

Yurkevich, A.P. and Vovchenko, N.Ya.

TITLE:

A magnetic-induction tachometer with adjustable

sensitivity

PERICDICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 21, abstract 10 Al68 (Tr. Mosk. aviats. in-ta, 1960, no. 120, 111-121)

The sensing element of the tachometer consists of frames with currents induced by rotation in a magnetic field, the counter-balancing of the created torque by means of a spring providing the possibility of measuring the corresponding rate of measuring the measuring the corresponding rate of measuring the measuring the measuring the corresponding rate of measuring the measuring the measuring the corresponding rate of measuring the measurin with a higher accuracy of readings at a given working range. 11 figures. Abstracter's note: Complete translation

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

## PHASE I BOOK EXPLOTIATION

**507/5650** 

Yurkevich, A. P., and N. Ya. Vovchenko

Raschet elektricheskikh izmeritel'nykh ustroystv i sistem s silovoy kom; ensatsiyey (Calculation of Electrical Measuring Devices and Systems With Power Compensation) Moscow, Oboronglz, 1961. 128 p. 10,100 copies printed.

Sponsoring Agency: Ministerstvo vysshego 1 srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy ordena Lenina aviatsionnyy institut imeni Sergo Crdzhonikidze.

Ed. (Title page): B.A. Ryabov, Douter of Technical Sciences, Professor; Ed. of Publishing House: K. I. Grigorash; Tech. Ed.: V.I. Oreshkina; Manuging Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This book is intended as a teaching aid for students working on term or degree projects in instrument-making and automation divisions or aviation schools of higher education. Certain sections of the book may be of interest to industrial technical personnel.

Card 1/4

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2" Calculation of Electrical Measuring Devices (Cont.) BOV /5650 COVERAGE: The book discusses the computation of the static and dynamic characteristics of avlation instruments on the basis of their block diagrams. The designing of electrical measuring devices with conversion of current into moment and power and moment pickups used in electrical measuring systems with power compensation are considered. The necessary theoretical foundations of the formulas, examples of the sequence of operations in computing and designing instruments and pickups, and the structure of their basic units are given. No personalities are mentioned. There are 20 references, all Soviet. TABLE OF CONTENTS: Foreword Ch. I. Computation of Basic Static and Dynamic Characteristics of Instruments Based on Their Block Diagrams 56 1. Standard block diagrams of the instruments 2. Static characteristics of measuring devices 3. Dynamic characteristics of measuring devices 22 Computing the dynamic characteristics of elementary 34 standard components Dynamic characteristics of a measuring system with 53 relay-type power compensation Card 2/4

ho8hh

S/535/62/000/14"/010/010

1011/1211

13 7500 AUTHOR:

TITLE:

Vovchenko, N. Ya., Candidate of Technical Sciences

On the elimination of temperature errors in measuring circuits with force compensation

Moscow. Aviatsionnyy institut. Trudy, no. 147. 1962. Navigatsionnyy i girok@pechiskiye

TEXT: In existing systems with high forward gains the system errors are caused by the errors of the feedback elements. These elements, when they are of the magneto-electric force or torque transducer type, have their errors caused mainly by temperature changes, in the order of magnitude of 0.03% per 1°C.

The relation between the output and input signals of the feedback path is expanded into a series with the retention of the first two members for the case of a linear temperature dependence of the parameters. It is then shown that there are two ways of eliminating the temperature errors: (1) the feedback path parameters ere so chosen that their errors mutually compensate each other; (2) each of the temperature coefficients is

In the case of measuring circuits with force compensation there is usually one feedback section-the torque decreased to its minimum possible value. or force transducer its errors are caused by temperature changes in the air-gap magnetic induction and the

It is shown that mutual compensation of the errors is impossible because some of them are smaller by an geometric measurements of the mechanical parts. order of magnetitude than the others. Compensators are therefore added to the feedback section. They cause an additional temperature change that compensates the original one. Two types of compensators are described.

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2" On the elemination of ...

S/535/62/000/147/010/010 1011/1211

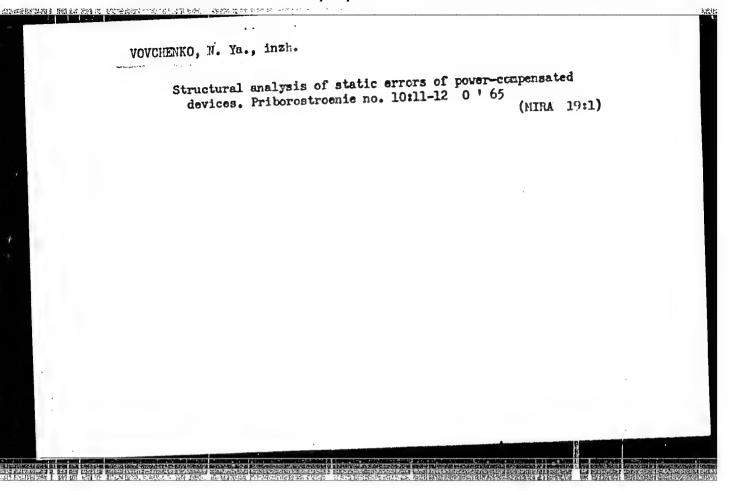
The first one comprises a manganin (zero temperature coefficient) resistor in series with the transducer coil and a nickel (high positive temperature coefficient) resistor as a shunt to this series connection. This is therefore an electric compensator which suitably changes the current in the coil. An equation for the value of the shunt resistor as a function of the different temperature coefficients and the values of the other two resistors is derived.

The second one, the thermo-magnetic shunt, is based on the property of some magnetic materials of sharply changing their magnetic characteristics with changes in the temperature. This compensator suitably changes the air-gap magnetic induction. Some construction hints are given. These shunts are made of materials with low Curie points such as kalmalloy, thermalloy, iron-nickel-chrome and iron-nickel-silicon. In equivalent electric circuit is shown and an equation for the shunt magnetic resistance is derived. In the general case when the forward gain is not big enough the error is given by

$$\delta_s = k_s \quad \left(\delta_I/\delta_{II} - \delta_{II}k_{II}\right),$$

where  $\delta_i$ ,  $\delta_I$ ,  $\delta_{II}$  are the errors of the system, the forward and the feedback paths respectively;  $k_i$ ,  $k_{II}$  are the gains of the system and the feedback respectively. There are 7 figures.

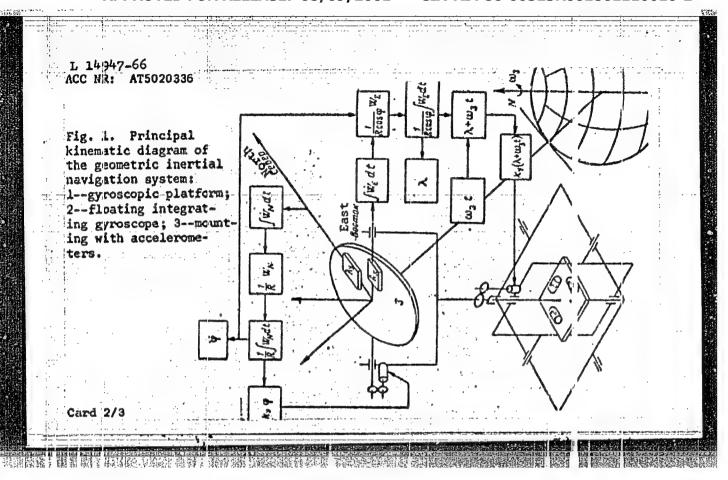
Card 2/2



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## "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2

L 14947-66 ACC NR: AT50	PALICALDUTA	BC/JD SOURCE CODE: UR/2535/65/000	/161/0076/0985
	nenko, N. Ya. (Candidate o		42 B+1
ORG: Moscow A	viation Institute (Aviatsi	onnyy institut)	BHI
TITU: Design	ning an inertial navigation	n system / HU,55	
SOURCE: Mose i navedeniya sbornik state	ow. Aviatsionnyy institut. letatel'nykh apparatov (Ai y, 76-65	rrudy, no. 201, 1905, Sisted ircraft orientation and guida	<u> </u>
bilized platf	orm, space accelerometer	vigation, equipment, Coriolis	
platform orie troduced in a uation of the	nted in the norizontal plant in earlier work by V. A. Ka methodical errors arising	tion system (see fig. 1) with ane is described. Equations arakashev, are made more pre- g from translational and Cor- tions indicate that these me d for by the accurate measure	cise and an eval- ioli: accelera- thod cal errors
Card 1/3		UDC: 629.13:527(04)	



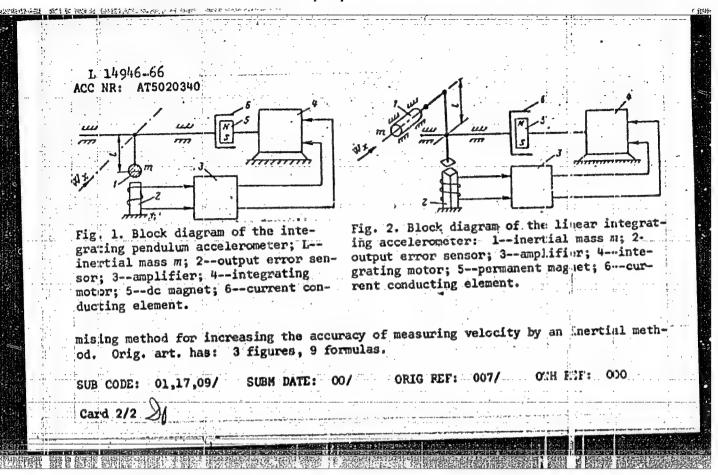
L-14947-66

ACC NR: AT5020336

tem parameters. Deriving the differential equations of the system from its kinematic block diagram simplifies their solution and allows one to evaluate the influences of separate dynamic elements in more comprehensive investigations by means of control theory methods. Orig. art. has: 3 figures, 22 formulas.

SUB CODE: 17,22/ SUBM DATE: 00/ ORIG REF: 004/ OTH LEF: 000

EWT(d)/EWT(l)/EWT(m) BC/JD L.14946-66 SOURCE CODE: UR/2535/65/000/141/0120/0127 ACC: NR: AT5020340 Vovchenko, N. Ya. (Candidate of technical sciences) AUTHOR: BACHGOOM STOCKED ON BEHAD STOCKED AND AND AND ORG: Moscow Aviation institute (Aviatsionnyy institut) TITLE: Characteristics of an integrating accelerometer with velocity feedback 9,44,55 SOURCE: Moscow. Aviatsionnyy institut. Trudy, no. 161, 1965. Sistemy origentatsii i navedeniya latatel'nykh apparatov (Aircraft orientation and guidandu systems); sbornik statey, 120-127 TOPIC TAGS: accelerometer, differentiating circuit, inertial navigation equipment ABSTRACT: An analysis is presented of an integrating accelerometer with derivitive feedback involving both the accelerometer and the integrator. The system is analyzed from the point of view of accuracy and to explain the dynamic behavior. Figures 1 and 2 show the two types of integrating accelerometers discussed. The transfer functions for the systems are derived, and expressions for error are presented for both the integrating pendulum and linear integrating accelerometers. The analysis shows that the use of the differentiating element in the feedback loop offers a pro-UDC: 629.13.05.001.1(04) Card 1/2



VOYORENKO, N.Ya., kand, tekhn, nauk

Designing an inertial navigation system. Trudy NAI no.161:76-85 165.

Characteristics of an integrating accelerometer with a differentiating (NIRA 1819)

back coupling, Ibid. 1220-127 (NIRA 1819)

VOVCHENKO, O.D.; SHAPRAN, N.S.

New developments in the artistic design of fabrics. Leh. prom.
(MIRA 16:7)

1. Kiyevskiy shelkovyy kombinat.
(Kiev—Textile printing)

DIBROVA, Aleksey Timofeyevich [Dibrova, O.T.], kand.geograf.nauk; 1 DVCHNIKO,
P., red.; VER, A.Ya. [Ver, A.IA.], red.

[Nature and economy of the Ukraine] Pryroda i hospodarstvi.
Ukraine ikoi RSR. Kyiv, 1958. 54 p. (Tovarystvo dlia posh rennia
Ukraine in naukovykh snan' Ukraine ikoi RSR. Ser.5, no.9)
politychnykh i naukovykh snan' Ukraine ikoi RSR. Ser.5, no.9)

(Ukraine - Bonomic conditions)

(Ukraine - Bonomic conditions)

# "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110010-2

VCVCHENKO, Pavel Crigor'yevich; RUSAKOVA, G.Ya., red.

[Riddles of the atmospheric elements] Zagadki vozdushnoi stikhii. Leningrad, Gidrometeoizdat, 1964. 135 p. (MIRA 17:6)

IL'IN, K.P., kand.tekhm.nauk; PLADIS, F.A., inzh.; ROSTOVSKAYA, Ye.P., inzh.; VOVCHENKO, P.I., inzh.; Prinimali uchastiye: GORRENKO, L.G., inzh.; SHESTAKOV, Yu.K., inzh.; LABADIN, S.I., inzh., retsenzent; MATAKHOV, K.N., inzh., retsenzent; PETROVA, V.L., inzh., red.; BORROVA, Ye.N., tekhn.red

[Methods of determining freight weight] Sposoby opredelenifa. vosa gruzov. Moskva, Vses.izdatel'skopoligr.ob'edinenie N-vaputei soob., 1961. II? p. (Moscow. Vsesoiuznyi nauchnoputei soob., 1961. II? p. (Moscow. Vsesoiuznyi nauchnoiseledovatel'skii institut zheleznodorozhnogo transporta.

[Railroads—Freight] (Railroads—Freight) (Weighing machines)

VOVCHENKO, Pavel Grigor yevich; ZUBKOV, Aleksandr Yemel yenovich;
POGOSYAN, Kh.P., prof., retsenzent; ZAMORSKIY, A.D., prof.,
retsenzent; PED', D.A., kand.geogr.nauk, retsenzent;
DHEMLYIG, V.V., kand.geogr.nauk, retsenzent; SAGATOVSKIY,
N.V., red.; LAVRENOVA, N.B., tekhn.red.

[A brief course in meteorology and oceanography for ship navigators] Kratkii kurs meteorologii i okeanografii dlia sudovoditelei. Noskva, Isd-vo "Morskoi transport," 1960.

(MIRA 13:7)

(Neteorology, Maritime) (Oceanography)

VOVCHENKO, P.G.; PROTSENKO, V.F.

Organization of observations, collection of information, and study of dangerous hydrometeorological phenomena in the Northern Caucasus Hydrometeorological Service Administration. Meteor 1 gidrol. no.3:44-45 Mr '65. (MIRA 18:2)

1. Severo-Kavkazskoye upravleniye gidrometeorologicheskoy siuzhby.

# "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861110010-2

VOVCHENKO, P.I., inzh.; PLADIS, F.A., inzh.

Improvement of weighing operations and equipment is an urgent need. Zhel. dor. transp. 46 no.10:30-34 0 64. (MJRA 17:11)

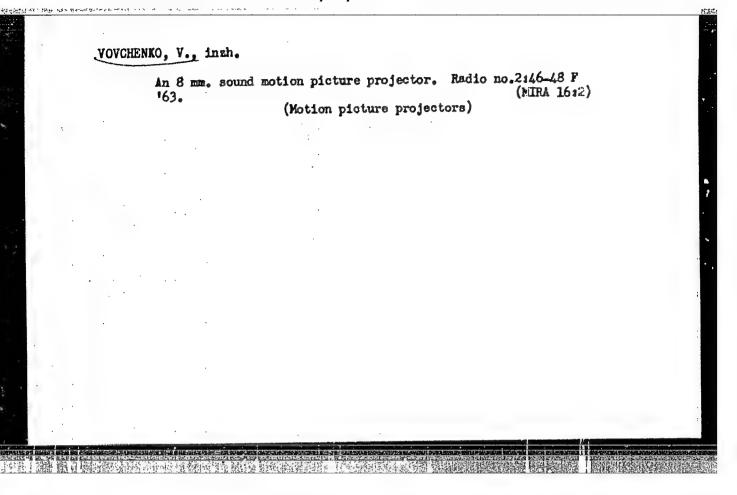
N/5 727.6 .V9

### . VOVCHENKO, R L

Zagotovka i porerabotka produktov zhivotnovodstva (moloka, ptitsy i. yaits (preparation and processing of animal husbandry products (milk, fowl, egg4), by) R. L. Vovchenko i A. V. Trunov. Moskva, Koiz, 1954.

247 P. illus., diagrs., tables.

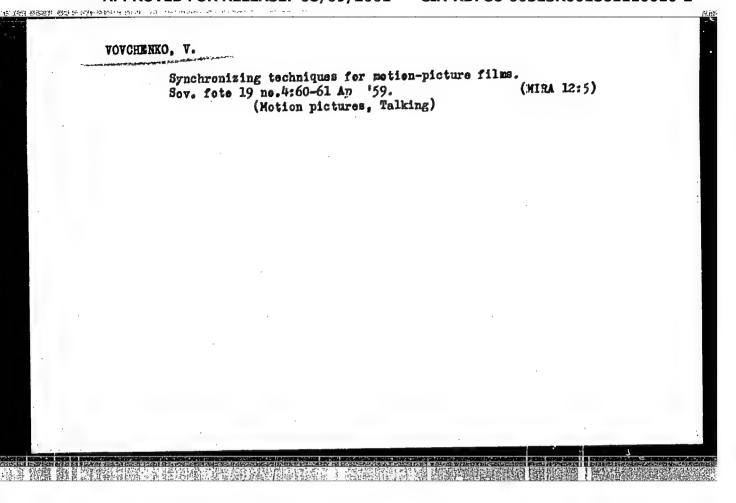
Bibliographical footnotes.



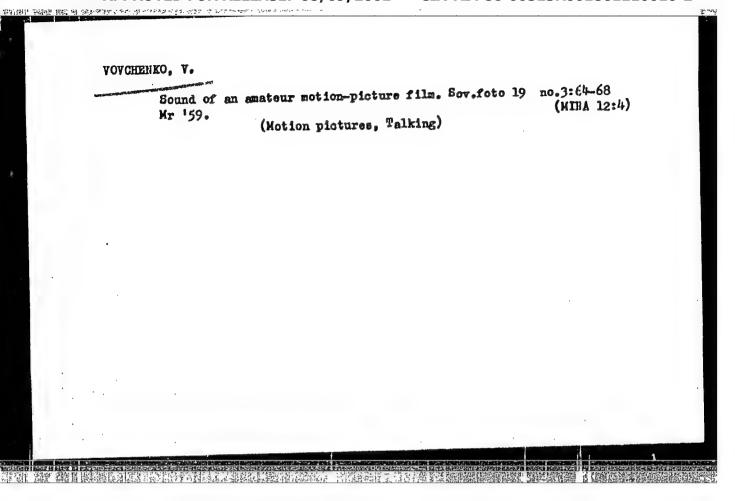
### VOYCHENKO, V.

Synchronous operation of a magnetic tape recorder and motion picture projector. Radio no.2:23-26.29 P 160.
(MIRA 13:5)

(Magnetic recorders and recording)
(Motion-picture projection)



•	•.	Film viowing table with a pulse lamp. Sov.foto 20 no.2:  (MIRA 13:7)  39-40 F 60.  (Amateur motion pictures—Equipment and supplies)
44		



Care 5/8 3	df (p + p == x +) = 0.73 ± 0.08. Senerally speaking, this redf (p + p == x * 0) = 0.73 ± 0.08. Senerally speaking, this redf (p + p == x * 0) = 0.73 ± 0.08. Senerally speaking speaking speaking speaking speaking speaking speaking speaking a state is different; It follows from speaking sp	Bacrgr Species of Charged Plans Produced in pe-Callisians at 663 Rev	is pd-falliatons at 660 Mew 1006/1011  seery speatrs. By integrating the speatrs over the energy (in the conterded-mass system) the differential production gross sections were found to de diff S(ppd-energy) = (6.7 ± 0.7) = (7.0 ± 0.7) = (7.	resultes proph) - s" prac(s), prac(s) - s" + Eugly), prac(s) - s" - proph), and print " - practice of positive plant of positive plant in the series of positive plant in the properties of positive plant in the first production production present and the nature of mailes histoling in the desires. Experients were established with the feature arministrature of the plant institute of Balear Research (Pahan); Fig. 1 above the experimental arrangement, Figs. 2 and 3 show the Desire plant in the product of the properties of the plant in the product of the produc	FIGURE In the present and present the sense of the sense	
£	e andly maly if the interference between amplitudes of manipular states in different; it follows from the data of locality plants from the data of locality plants from the data of locality plants from deatering in equal to 10.5 o 15 onking. The strength in equal to 10.5 o 15 onking. The strength maler review was enhalted from the 6th Justice of the Justice Council of the of Backers in search on June 1, 1999. There are 3 figures, references 7 Strike, 2 American, end 2 Eritah.	8112) \$/045/60/019/02/10/015 3006/1011	ico mer jook/joit  iterating the spectra over the energy (in the emistraliterating the spectra over the energy (in the emistraliterating process sections were found to only (6.7 ± 0.7) 10.72 cm²/steredian;  b (0.71 ± 0.05) 10.72 cm²/steredian;  c) (0.71 ± 0.05) 10.72 cm²/steredian;  c) (0.71 ± 0.05) 10.72 cm²/steredian;  ither plan production in free processing at recipient control of the plan production of protess with the plane obtained by it. A postereby. The ruite of the mean production in collisions of protess with the collisions of protess with the special to	or * Fracip), pass(p) = r * sy- ines, the sear of spatitum of one. From the comparitum predefiling present and the . Exprisent were contacted with Lastitute of Bedlear Research Agreemt. Figs. 2 and 3 show the present. Pigs. 2 and 3 show the present. Pigs. 2 and 3 show the agreemt. Pigs. 3 and 3 show the present. Pigs. 3 and 3 show the present and pigs. 3 and 3 show the present a	#/045/02/07/07/07/07/07/07/07/07/07/07/07/07/07/	

VOVCHENGO, V.G.; QEL'FER, G.; KUZHETSOV, A.S.; MESHCHERTAKOV, M.J.;

SYVATKOVSKIY, V.

Affect of the nuclear coupling of nucleons on the shape of the

J-meson energy spectral Zhur. eksp. 1 teor. fiz. 39

no. 6:1557-1570 D'60.

1. Ob"yedinenmyy institut yadernykh iseledovaniy.

(Mesons)

(Mucleons)

ACC NR. AP6022012

SOURCE CODE: UR/0120/66/000/003/0141/0142

AUTHOR: Vovchenko, V. G.; Shchetkovskiy, A. I.

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TITLE: Discriminator as a nanosecond pulse splitter

SOURCE: Pribory 1 tekhnika eksperimenta, no. 3, 1966, 141-142

TOPIC TAGS: pulse counter, logic circuit, printed circuit

ABSTRACT: A discriminator (nanosecond pulse splitter) circuit, intended for use in time analysis systems, has been developed which is capable of operation in a wide amplitude range of input signals. The circuit consists of a diode limiter, a tunnel diode acting as a shaper, and a 5-transistor pulse splitter. Input and output pulses are of negative polarity. The circuit is printed in a single block as a component in a system of counting modules. Its operating threshold is 100 mv and duration of its output pulses is 6-8 nsec. It permits a two hundred-fold excess of the thresholdi.e., it can handle input pulses of up to 20 v with a 3-20 nsec duration, whereby the duration of output pulses remains practically constant. The dead time of circuit is 20 nsec. The authors thank L. V. Fokina and V. D. Malakhov for aid in the assembly and adjustment of the circuits as well as S. P. Kruglov for interest in the work. Orig. art. has: 3 figures. 09/ SUBM DATE: 20Apr65/. ORIG REF: 091/ OTH REF: SUB CODE: WC: 621.374.2 Card 1./1

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The disseasement of the contract of the contra	Determining the Imaginary part of phase shifts in elastic pp-scattering at 655 Mev. Dokl. AN SSSR 163 no.6:1348-1351 Ag 165. (MIRA 18:8)						
	1. Fiziko-tekhnicheskiy institut im. A.F. Ioffe AN SSSR. Submitted May 8, 1965.						
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S/056/60/039/006/015/063 B006/B056

24.6900 AUTHORS:

Vovohenko, V. G., Gel'fer, G., Kuznetsov, A. S.,

Meshcheryakov, M. C., Svyatkovskiy, V.

TITLE:

Effect of Nuclear Binding of Nucleons Upon the Shape of

Pion Energy Spectra

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960, PERIODICAL:

Vol. 39, No. 6(12), pp. 1557-1570

TEXT: A description is given of experiments which were carried out with the aim of obtaining quantitative data on the effect produced by nucleon bindings in deuterons and carbon nuclei upon the production of charged pions. Conclusions are drawn with respect to pion production processes on the basis of comparisons of the energy spectra of pions produced in collisions of protons with free protons and with nucleons bound in deuterons and carbon nuclei. The experiments were conducted in a way ensuring strictly equal conditions in taking the spectra and separating the pp- and pn-collisions. The experiments were carried out on the six-meter synchrocyclotron of the Joint Institute of Nuclear

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001861110010-2"

Effect of Nuclear Binding of Nucleons Upon the Shape of Pion Energy Spectra S/056/60/039/006/015/063 B006/B056

Research. For the pp- and pd-collision experiments, thin-walled cylindrical vessels (4 cm × 12 cm) filled with liquid hydrogen and deuterium, respectively, were used as targets. The densities were 0.0708 and 0.169 g/cm<sup>3</sup>, respectively. In the experiments with carbon a 3 mm thick, 5 x 5 cm<sup>2</sup> graphite plate was used as target. In the target center, the proton energy in all cases was (654+5)MeV, the slowing-down losses in hydrogen and deuterium, respectively, were 1.4 and 1.7 MeV, and in hydrogen and deuterium, respectively. The proton flux in a team were 0.7, 0.8, and 0.5 MeV; the slowing-down losses of the 150-MeV pions of 2 x 3 cm<sup>2</sup> cross section was 2.108 p/cm<sup>2</sup>·sec. The energy spectra of of 2 x 3 cm<sup>2</sup> cross section was 2.108 p/cm<sup>2</sup>·sec. The energy spectra of the charged pions were measured by a magnetic spectrometer with two then scintillation counters at the input, which was described by L. S. Azhgirey et al. The pion recording threshold was about 35 MeV. The results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections, which had an error results obtained had, after a number of corrections.

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Effect of Nuclear Binding of Nucleons Upon the Shape of Pion Energy Spectra

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difference found to exist in the spectra of mesons from deuterium and carbon is said to be due to the following reasons: a) a higher degree of pair correlation of the nucleons in the carbon nuclei than in deuterons, b) differences in nucleon momentum distribution in these nuclei, and c) effect of secondary pion-nucleon interactions in carbon nuclei. For an angle of  $\sim 90^\circ$  in the c.m.s. of the two colliding nucleons, the following ratio of differential cross sections was found:

following ratio of differential closs section 
$$\frac{d\sigma}{d\omega}[p+p\to\pi^+]_{H}:\frac{d\sigma}{d\omega}[p+p\to\pi^+]_{D}:\frac{d\sigma}{d\omega}[p+p\to\pi^+]_{C}=1:0.79:0.40.$$

The  $\pi$ -meson yields from deuterium and carbon per nucleon of the target nucleus were found to be approximately the same. The  $\pi^+$ - $\pi^-$ -meson yield ratios for deuterium and carbon were found to be  $10.3 \pm 1.3$  and  $6.0 \pm 0.8$ . The decrease of this ratio on the transition from deuterium to carbon is explained by the considerable fraction of secondary exchange interaction ( $\pi^0$  +  $n \rightarrow \pi^-$  + p) in the  $\pi^-$ -meson yield of carbon. Change interaction ( $\pi^0$  +  $n \rightarrow \pi^-$  + p) in the  $\pi^-$ -meson yield of carbon. B. S. Neganov, O. V. Savchenko, A. G. Meshkovskiy, Yu. D. Prokosnkin, L. B. Parfenov, and M. S. Kozodayev are mentioned. There are 4 figures, Card 3/6

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Effect of Nuclear Binding of Nucleons Upon the Shape of Pion Energy Spectra S/056/60/039/006/015/063 B006/B056

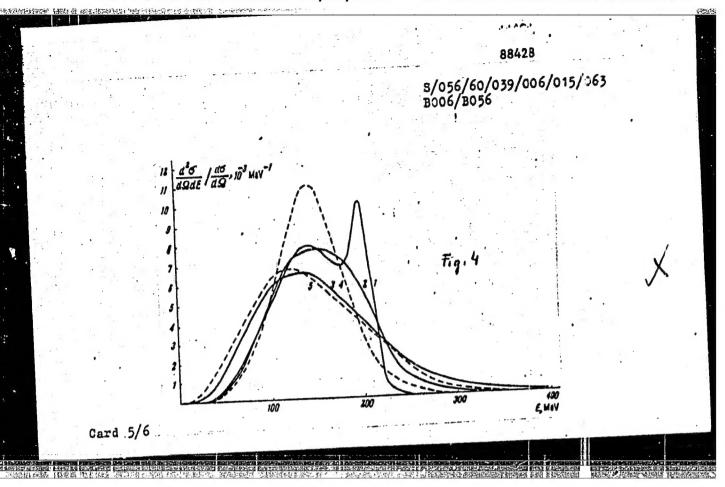
3 tables, and 31 references: 14 Soviet, 14 US, 1 CERN, and 2 British.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: July 9, 1960

Text to Fig. 4: Comparison between the energy spectra of the charged pions 1)  $\pi^+$ -mesons, emitted in free pp collisions. 2)  $\pi^+$  from [pp] 1; 3)  $\pi^+$  from [pp] 2; 4)  $\pi^-$  from [pn] 5)  $\pi^-$  from [pn] C. All spectra are normalized on a uniform area. Text to Table 1: Differential cross sections for charged pions in pp- pd- and pC-collisions at 654 Mev. Angle of observation 56 with respect pd- and pC-collisions at 654 Mev. Angle of observation 56 with respect to the proton beam ( $\sim 90^\circ$  in the c.m.s.). 1) Differential cross sections, in  $10^{-28}$  cm²/steradian; 2) Process; 3) Nucleons; 4) 1.s.; 5) c.m.s.

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